



## SEQUENCE LISTING

<110> Zyskind, Judith W.  
Forsyth, Allyn R.

<120> METHOD FOR IDENTIFYING MICROBIAL  
PROLIFERATION GENES

<130> 475442001210

<140> 09/805,664

<141> 2001-03-13

<150> 08/971,090

<151> 1997-11-14

<160> 9

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer 5' to 3'

<400> 1

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18

<210> 2

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<212> DNA

<213> Artificial Sequence

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<223> Primer 5' to 3'

<400> 2

acaatttcac acagcctc

18

<210> 3

<211> 546

<212> RNA

<213> Escherichia coli lepB

<400> 3

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caggaagcgu	uccucgccau	ucugcacguc	ggcaaagaca	acaaauaacc	cuuaggaguu	120
ggcauggcga	auauguuugc	ccugauucug	gugauugcca	cacuggugac	gggcauuuuu	180
uggugcgugg	auaaaauucu	uuucgcaccu	aaacggcggg	aacgucaggc	agcggcgag	240
gcggcucggg	acucacugga	uaagcaacg	uugaaaaagg	uugcgccgaa	gccuggcugg	300
cuggaaaccg	gugcuucugu	uuuuccggua	cuggcuauag	uauugauugu	gcuuucguuu	360
auuuauaagc	cguuccagau	cccugcaggu	ucgaugaugc	cgacucuguu	aaugggugau	420
uuuauucugg	uagagaaguu	ugcuuauggc	auuaaagauc	cuaucuaacca	gaaaacgcug	480
aucgaaaacg	gucauccgaa	acgcggcgau	aucguggucu	uuaaaauacc	ggaagaacca	540
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<210> 4

<211> 714

<212> RNA

<213> Escherichia coli viaA

<400> 4

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uacucgacuu	uugcacugac	ugaaaaggac	aaauuaaugu	uaaaaaagau	acuuuuacug	180
gcucugcuuc	cugcaaucgc	cuucgcagag	gaacuuccug	cuccaguaaa	agcgauugaa	240
aaacaggggca	uuacaaucau	caaaacaauc	gaugccccc	gaggaaugaa	agguaaucuc	300
ggaaaguauc	aggauauggg	cgucaccauc	uaccugacuc	cagaugguaa	gcacgcuauc	360
ucugguuaca	uguacaacga	gaaaggugaa	aaccugagua	acacacuau	cgaaaaagaa	420
auuuacgcac	cagccggacg	cgaaaugugg	caacggauug	aacaauccca	cuggcuccuc	480
gacgguaaaa	aagaugcgcc	ggucauuguc	uacgucuucg	ccgauccguu	cugcccauau	540
uguaaacagu	ucuggcgagca	ggcgcgccc	uggguagauu	cuggcaaagu	gcaauuaaga	600
acauuguugg	uugggguuau	caagccagaa	agcccggcga	cagcagcggc	aaucucugcc	660
uccaaagauc	ccgcaaaaac	cuggcaacaa	uaugaagccu	cugguggcaa	gcuu	714

<210> 5

<211> 714

<212> DNA

<213> Escherichia coli viaA

<400> 5

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tactcgactt	ttgcaactgac	tgaaaaggac	aaattaatgt	taaaaaagat	acttttactg	180
gctctgcttc	ctgcaatcgc	cttcgcagag	gaacttcctg	ctccagttaa	agcgattgaa	240
aaacaggggca	ttacaatcat	caaaacattc	gatgcccccg	gaggaatgaa	aggttatctc	300
ggaaagtatc	aggatatggg	cgtcaccatc	tacctgactc	cagatggtaa	gcacgctatc	360
tctggttaca	tgtacaacga	gaaagggtgaa	aacctgagta	acacacttat	cgaaaaagaa	420
atttacgcac	cagccggacg	cgaaatgtgg	caacggatgg	aacaatccca	ctggctcctc	480
gacggtaaaa	aagatgcgcc	ggtcattgtc	tacgtcttcg	ccgatccgtt	ctgcccata	540
tgtaaacagt	tctggcgagca	ggcgcgccc	tgggtagatt	ctggcaaagt	gcaattaaga	600
acattgttgg	ttggggttat	caagccagaa	agcccggcga	cagcagcggc	aattcttgcc	660
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<210> 6

<211> 1050

<212> RNA

<213> Escherichia coli ddlB

<400> 6

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uguccagcau	aacgucaaua	cguccccauc	cuuugcaacc	uaacgucguc	caugcuuua	180
gcacuaaugc	cugcaaaugc	gccucuugug	acgcuuccag	accugcgggg	cagaaaauca	240
gugucucauc	agagagauac	uucgcccua	aaucuaagaa	ggauccggac	ggugaaauac	300
guauugacgg	uaaaauuucu	ucaccgagua	ucgcaaccgu	gaacuccggc	ccacuagacc	360
auuuuucaau	caauacuucu	ucaucgugcu	gaaaugccaa	ucuaaauuca	ucuuuagag	420
cauuuucugc	uacuacuucu	gacauuccca	cacuggaacc	uucgcggcuc	ggcuuaacga	480
uaaccggcaa	accagagca	gaaaauucug	cuaacugcuu	aucgcucagg	ccuuuuucaa	540
acucugcgcg	gguaaacgcu	accacggcgc	cgaccgguaa	accggcacccu	ugccauagaa	600
guuugcugcg	uaguuuaucc	auugaaagcg	cagaugccau	cacuccgcuu	ccgguaaag	660
gcaagcccau	cagcugcagc	aucccccugca	gcguaccuac	uucaccgccc	cgaccgugua	720
gcgcgaauaaa	cacuucuga	aagcccaucg	acuucaguug	cgucacgucg	acuucuuucg	780
ggucgacagg	auacgcguca	auaccgccuu	cacgcacucc	ggcuaacacc	gcugcgccag	840
aaucagagaa	aacuucccg	ucagcgagg	uccacccaa	caggaccgcg	auuuuauacg	900
ucauguuguu	cuuccuccgg	aguuuugcg	uucaguuga	uuucagcuua	agaacgggca	960
auuuuuccaa	uauuaccagc	cccugaacg	agaauacaggu	cguuaccggu	uaauaccggu	1020
gccagcaucu	cggcuaccgc	cgccggaucc				1050

<210> 7

<211> 451

<212> RNA

<213> Escherichia coli ampG

<400> 7  
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aaccgcaucg gcgauauuuu uguuggaggc cuggaacgca ccuuccaagc uguagcuggc 120  
acgauaguuu uuggucauuu uguugccauu cugcgcgguu gcgaugaugg cgauauccgc 180  
uuuggucgcg auguuguagc gcacguugcc cugggacacg ucagcauaca guuggcuaac 240  
gaugauuugc agauuaaccg ggccauucgg accaaccag uaaccacgcg cggucaucug 300  
uuuuuccagc acuucugca gcaggaaacg cagaucgcgg gaggcgguca ggguaacgau 360  
uugauuauucg cgggugacuu uugccagcgc cugaucggua cgcugaucgg caccauuauu 420  
gcuuacggug acgcccuaa ggcuuggauc c 451

<210> 8  
<211> 836  
<212> DNA  
<213> Escherichia coli secA

<400> 8  
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ataacgtgag tggaatactg acgcgctggc gacagtttgg taaacgctac ttctggccgc 120  
atctcttatt agggatggtt gcggcgagtt taggtttgcc tgcgctcagc aacgccgcgc 180  
aaccaaacgc gcccgcacaa gcgacaaccc gcaaccacga gccttcagcc aaagttaact 240  
ttggtcaatt ggccttgcg gaagcgaaca cagcgcgcc gaattcgaac tattccgttg 300  
attactggca tcaacatgcc attcgcacgg taatccgtca tctttctttc gcaatggcac 360  
cgaaacact gcccgttgct gaagaatctt tgctcttca ggcgcaacat cttgcattac 420  
tggtacgct cagcgcgctg ctgacccagg aaggcacgcc gtctgaaaag ggttatcgca 480  
ttgattatgc gcattttacc ccacaagcaa aattcagcac gccgctctgg ataagccagg 540  
cgcaaggcat ccgtgctggc cctcaacgcc tcacctaaca acaataaacc tttacttcat 600  
tttattaact ccgcaacgcg gggcgcttga gattttatta tgctaataca attgttaact 660  
aaagttttcg gtagtcgtaa cgatcgacc ctgcgcgga tgcgcaaagt ggtcaacatc 720  
atcaatgcca tggaaccgga gatggaaaaa ctctccgacg aagaactgaa agggaaaacc 780  
gcagagtttc gtgcacgtct ggaaaaaggc gaagtgcggtg aaaatctgat cccgga 836

<210> 9  
<211> 836  
<212> RNA  
<213> Escherichia coli secA

<400> 9  
uccgggauca gauuuuccag cacuucgcuu uuuccagac gugcacgaaa cucugcgguu 60  
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uugaccacuu ugcgcauccg gcgcagggug cgaucguuac gacuaccgaa aacuuuagu 180  
aacaauuuga uuagcauaau aaaaucucua acgccccgcg uugcggaguu aauaaaauga 240  
aguaaaagguu uauuguuguu agguagaggc uugagggcca gcacggaugc cuugcgccug 300  
gcuuaucag acgggcgugc ugaauuuugc uugugggua aaaugcgcau aaucaaugcg 360  
auaaccuuu ucagacggcg ugccuuccug ggucagcagc gcgcugagcg uauccaguaa 420  
ugcaagaugu ugcgccugaa gaggcacaaga uucucagca acgggcagug uuugcgugc 480  
cauugcgaaa gaaagaugac ggauuaccgu gcgaauaggc uguugaugcc aguaaucaac 540  
ggaauaguuc gaauucgggc ggcguguguu cgcuuccagc aaggccaauu gaccaaagu 600  
aacuuuggcu gaaggcucgu gguugcgggu ugucgcuuu gcgggcgcgu uugguucggc 660  
ggcgugugc agcgcaggca aaccuaaacu cgccgcaacc aucccuaua agagaugcgg 720  
ccagaaguag cguuuacaa acugucgcca gcgcgucagu auuccacua cguuauugcc 780  
aucccgauca uauucaaagc uauuuagcgc aaaaucua ucauuuagc cugcag 836